

A NOAA Lab's Perspective

Jennifer Mahoney

Background GSD

- Partners with NCAR at the DTC and Global Modeling Testbed
- Contribute to JCSDA with work in data assimilation
- Developers of regional and global models
- Extensive work verification and evaluation
- HPC/Cloud, Machine Learning, and Models
- R2O

NOAA Earth Modeling

Drives requirements

Outside NOAA

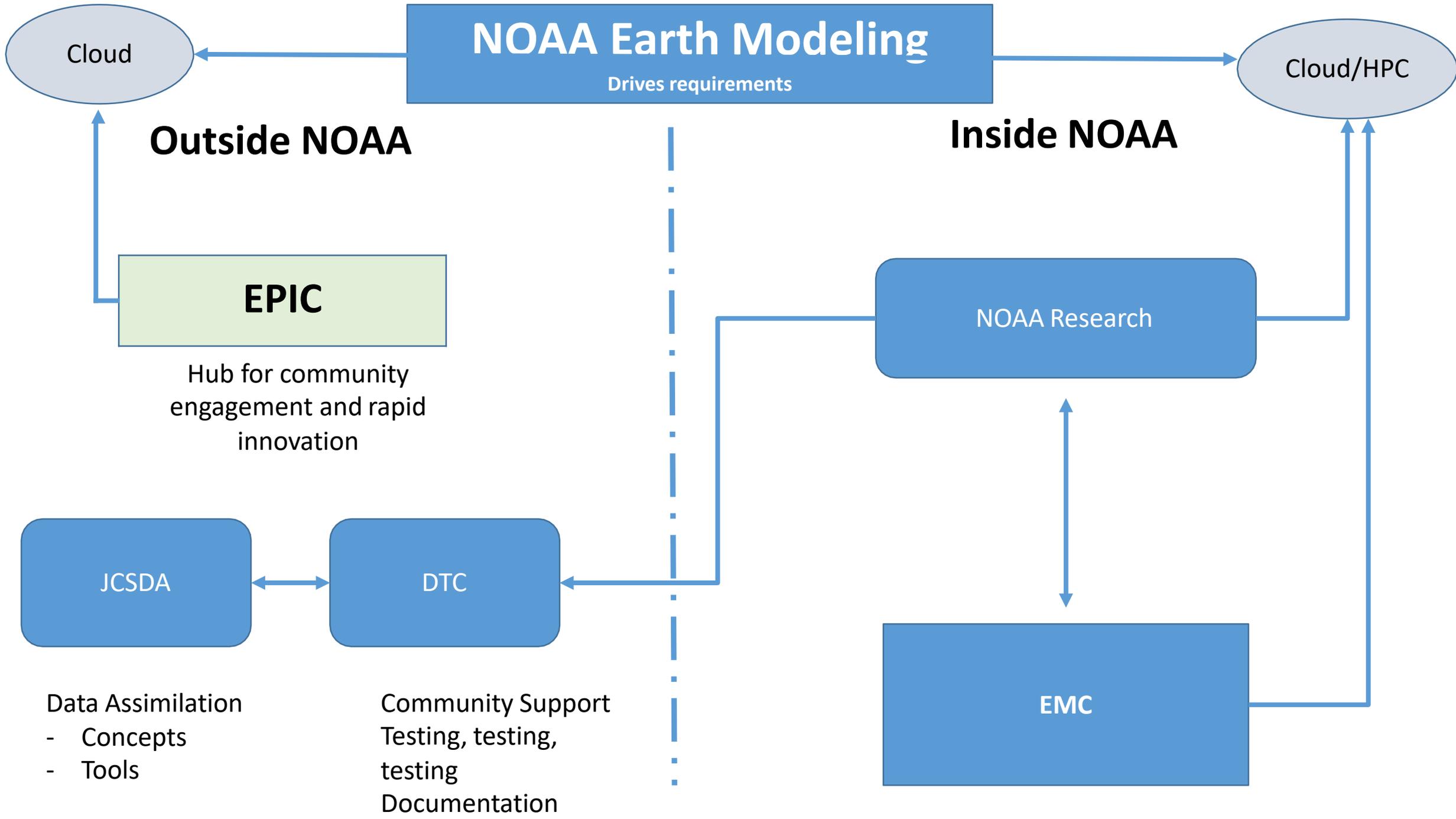
Inside NOAA

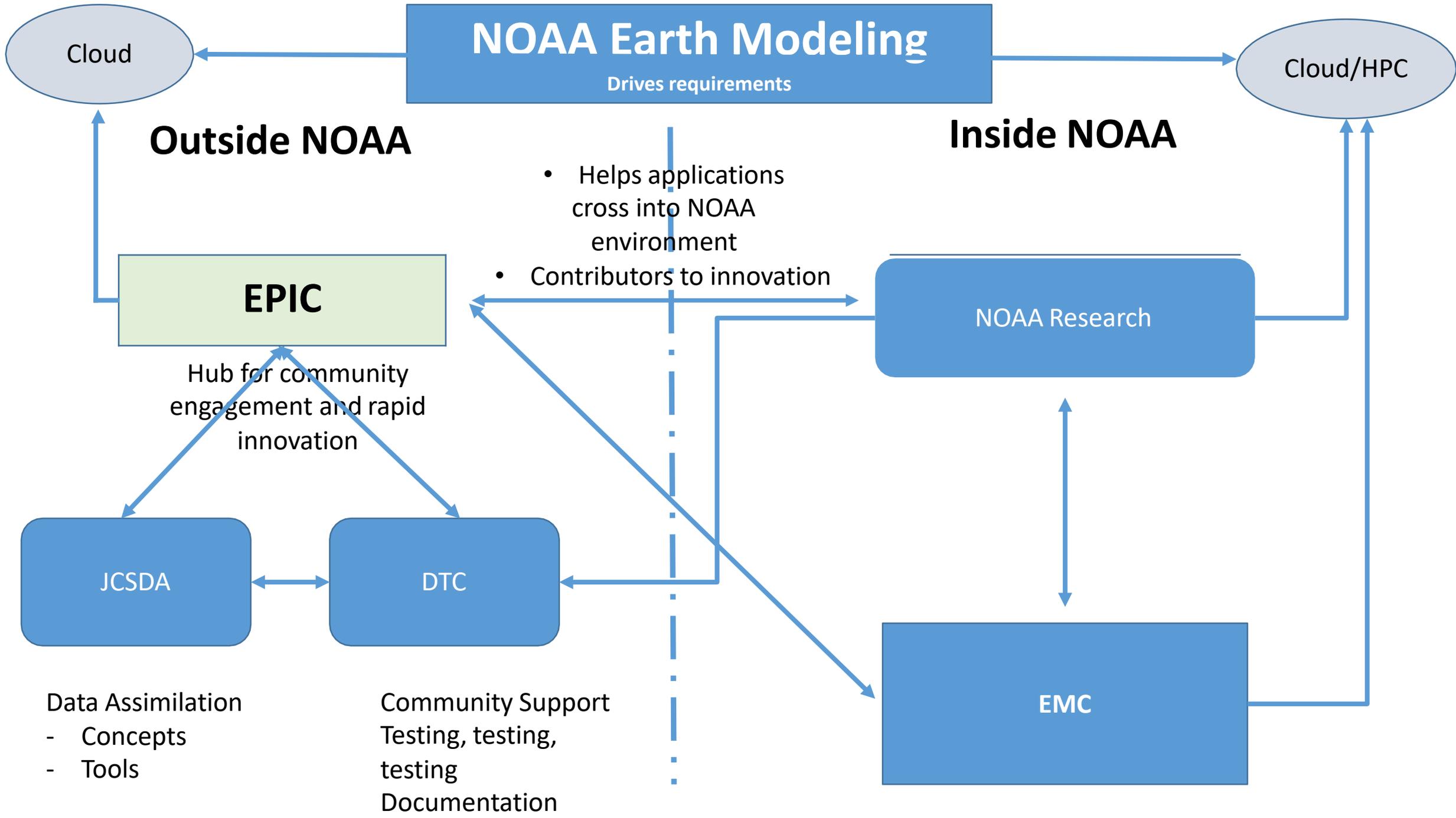


- Data Assimilation
- Concepts
- Tools

- Community Support
- Testing, testing,
- testing
- Documentation







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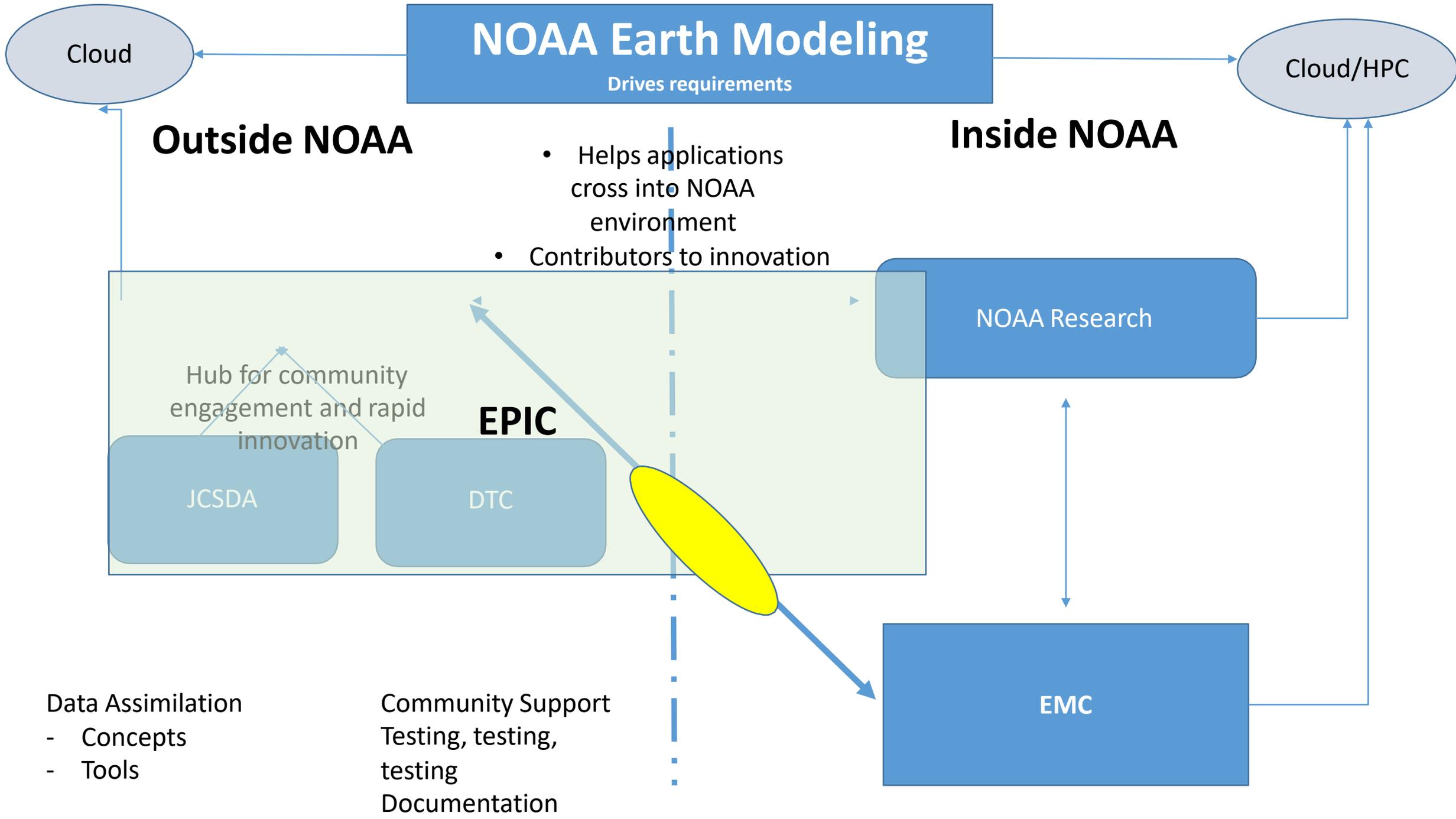
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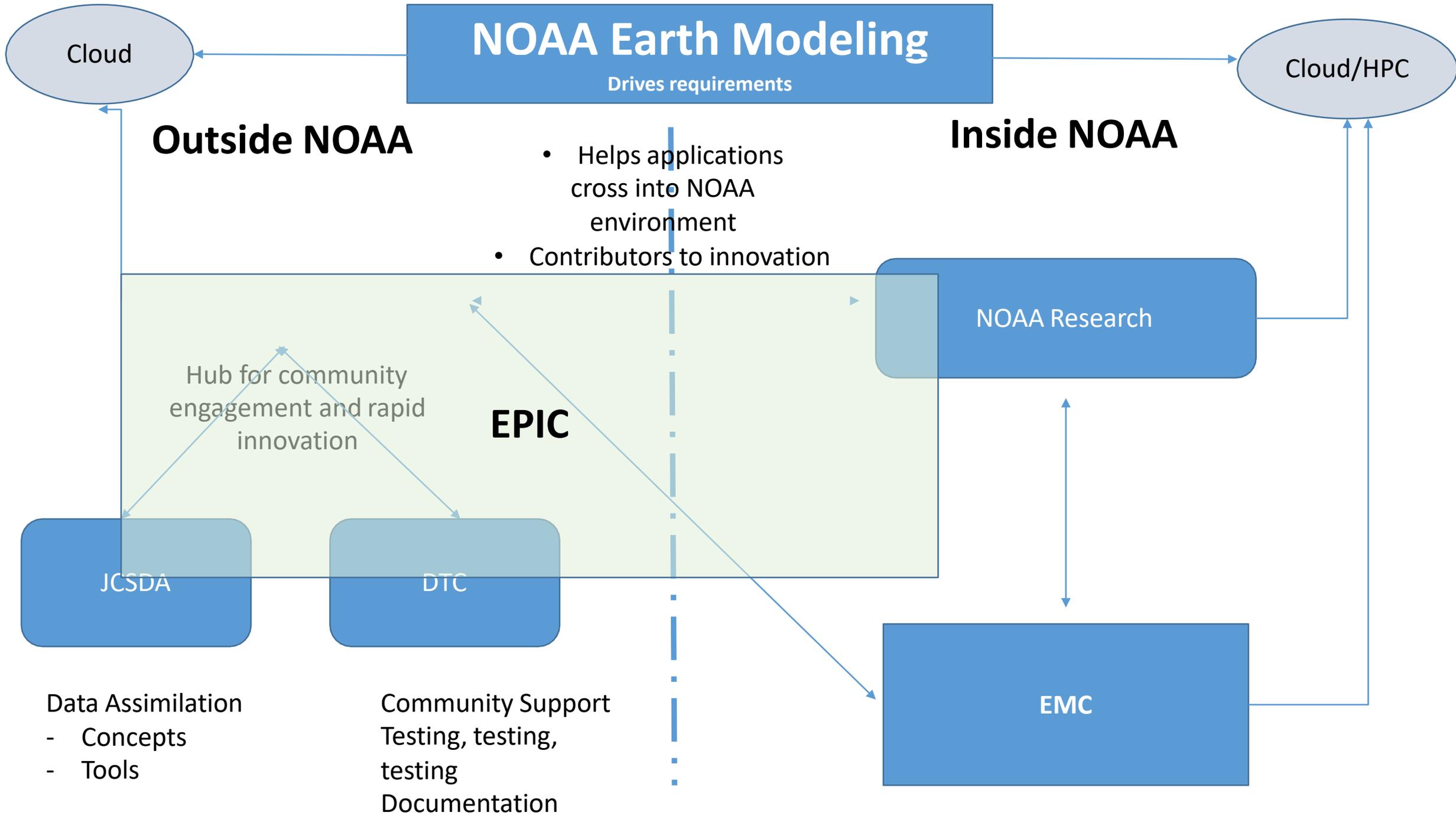


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Recommendations for moving forward

- Governance for the **world-leading global community Earth-system model**
 - Clearly define the target – what are we trying to achieve?
 - Clarify EPIC's role in achieving the target
 - Broader but laser focused on the goal
 - Determine how EPIC interfaces with the inside-NOAA to achieve our goal
 - Determine an EPIC Director (outside expertise with knowledge of the Wx Enterprise?)
 - Determine a NOAA Modeling Czar(?)
- Technical steps
 - Utilize the UFS infrastructure and SIP to establish a timeline for near-term wins. Fund those efforts.
 - Develop an initial infrastructure to make the UFS code available to the community
 - Begin building linkages to operations (guidelines and processes) for R2O and O2R